**APPENDIX:**

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| **Appendix Table 1: ICU Length of Stay** |
| Hospital type | 2019 Mean Number of Days (± St. Dev) | 2020 Mean Number of Days (± St. Dev) | 2019 vs 2020 Mean Number of Days Comparison p-value |
| All Hospitals | 3.63 (± 1.18) | 4.30 (± 1.37) | p < .001 |
| Tertiary/Quaternary Medical Centers | 4.29 (± 1.12) | 5.04 (± 1.29) | p < .001 |
| Regional Medical Centers | 3.05 (± 0.77) | 3.76 (± 0.93) | p < .001 |
| Community Medical Centers | 3.12 (± 1.03) | 3.69 (± 1.21) | p < .001 |
| Medical Centers Located in Metropolitan Communities | 4.22 (± 1.22) | 5.02 (± 1.35) | p < .001 |
| Medical Centers Located in Suburban Communities | 3.36 (± 0.89) | 4.13 (± 1.09) | p < .001 |
| Medical Centers Located in Rural Communities | 3.04 (± 1.01) | 3.41 (± 1.09) | p = .012 |

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| **Appendix Table 2: Complication Rate** |
| Hospital Type | 2019 Mean Complication Percentage (± St. Dev) | 2020 Mean Complication Percentage (± St. Dev) | 2019 vs 2020 Complication Percentage Comparison p-value |
| All Hospitals | 8.90% (± 3.24) | 9.78% (± 3.53) | p < .001 |
| Tertiary/Quaternary Medical Centers | 10.55% (± 3.03) | 11.72% (± 3.25) | p < .001 |
| Regional Medical Centers | 8.01% (± 2.32) | 8.82% (± 2.64) | p = .032 |
| Community Medical Centers | 7.24% (± 2.91) | 7.80% (± 2.98) | p = .075 |
| Medical Centers Located in Metropolitan Communities | 10.07% (± 3.39) | 11.22% (± 3.67) | p = .004 |
| Medical Centers Located in Suburban Communities | 9.00% (± 2.69) | 9.81% (± 2.80) | p = .030 |
| Medical Centers Located in Rural Communities | 6.91% (± 0.03) | 7.46% (± 0.29) | p = .096 |

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| **Appendix Table 3: Case Mix Index** |  |
| Hospital Type | 2019 Mean Case Mix Index (± St. Dev) | 2020 Mean Case Mix Index (± St. Dev) | 2019 vs 2020 Case Mix Index Comparison p-value |
| All Hospitals | 2.90 (± 0.80) | 3.18 (± 0.86) | p < .001 |
| Tertiary/Quaternary Medical Centers | 3.42 (± 0.69) | 3.76 (± 0.75) | p < .001 |
| Regional Medical Centers | 2.63 (± 0.58) | 2.88 (± 0.56) | p = .006 |
| Community Medical Centers | 2.37 (± 0.59) | 2.59 (± 0.63) | p = .004 |
| Medical Centers Located in Metropolitan Communities | 3.29 (± 0.80) | 3.62 (± 0.88) | p < .001 |
| Medical Centers Located in Suburban Communities | 2.84 (± 0.64) | 3.11 (± 0.62) | p = .001 |
| Medical Centers Located in Rural Communities | 2.35 (± 0.61) | 2.55 (± 0.66) | p = .023 |

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| **Appendix Table 4: Cost of Hospitalization by Community Type** |
| **Hospital Type** | **2019 Total Average Cost** **(± St Dev)** | **2020 Total Average Cost****(± St Dev)** | **2019 vs 2020 Total Average Cost Comparison****p-value** | **2019 Mean Direct Cost****(± St Dev)** | **2020 Mean Direct Cost (± St Dev)** | **2019 vs 2020 Direct Cost Comparison p-value** |
| Medical Centers Located in Metropolitan Communities | $38,917 (±16,767) | $42,352 (±18,764) | p = .055 | $23,265(± 11,325) | $25,000(± 12,498) | p =.115 |
| Medical Centers Located in Suburban | $29,100 (±10,177) | $32,477 (±9,731) | p = .006 | $16,289(± 6,617) | $17,992(± 6,423) | p < .001 |
| Medical Centers Located in Rural Communities | $23,903 (±7,537) | $28,141 (±10,363) | p = .001 | $12,786(± 4,700) | $15,320(± 6,295) | p = .002 |

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| **Appendix Table 5: Summary of Patient and Financial Outcomes by Community Type** |
|  | **2019 Mean****(± St Dev)** | **2020 Mean****(±St Dev)** | **2019 vs 2020 Comparison p-value** |
| **Medical Centers Located in a Metropolitan Setting** |
| LOS Index | 1.13 (± 0.19) | 1.17 (± 0.20) | p = .047 |
| ICU Length of Stay | 4.22 (± 1.22) | 5.02 (± 1.35) | p < .001 |
| Complication Rate | 10.07% (± 3.39) | 11.22% (± 3.67) | p = .004 |
| Mortality Index | 1.14 (± 0.42) | 1.09 (± 0.28) | p = .146 |
| Case Mix Index | 3.29 (± 0.80) | 3.62 (± 0.88) | p < .001 |
| Total Cost | $38,917 (± 16,767) | $42,352 (± 18,765) | p = .056 |
| Direct Cost Index | 1.14 (± 0.28) | 1.18 (± 0.28) | p = .103 |
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| LOS Index | 1.06 (± 0.18) | 1.10 (± 0.18) | p = .079 |
| ICU Length of Stay | 3.36 (± 0.89) | 4.13 (± 1.09) | p < .001 |
| Complication Rate | 9.00% (± 2.69) | 9.81% (± 2.80) | p = .030 |
| Mortality Index | 1.09 (± 0.26) | 1.06 (± 0.27) | p = .371 |
| Case Mix Index | 2.84 (± 0.64) | 3.11 (± 0.62) | p = .001 |
| Total Cost | $29,100 (± 10,177) | $32,478 (± 9,731) | p = .013 |
| Direct Cost Index | 1.04 (± 0.23) | 1.08 (± 0.24) | p = .203 |
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| LOS Index | 0.95 (± 0.16) | 0.96 (± 0.17) | p = .322 |
| ICU Length of Stay | 3.04 (± 1.01) | 3.41 (± 1.09) | p = .012 |
| Complication Rate | 6.91% (± 2.63) | 7.46% (± 2.85) | p = .096 |
| Mortality Index | 1.04 (± 0.33) | 1.03 (± 0.34) | p = .419 |
| Case Mix Index | 2.35 (± 0.62) | 2.55 (± 0.66) | p = .023 |
| Total Cost | $ 23,903 (± 7,537) | $ 28,141 (± 10,364) | p = .001 |
| Direct Cost Index | 1.03 (± 0.17) | 1.07 (± 0.19) | p = .087 |